

Electrometallurgical Ferroalloy Product Manufacturing: 2002

Issued January 2005

EC02-311-331112 (RV)

2002 Economic Census

Manufacturing

Industry Series



U S C E N S U S B U R E A U

Helping You Make Informed Decisions

U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU



CONTENTS

Introduction to the Economic Census	v
Manufacturing	ix

Tables

1. Historical Statistics for the Industry: 2002 and Earlier Years ...	1
2. Industry Statistics for Selected States: 2002	2
3. Detailed Statistics by Industry: 2002	3
4. Industry Statistics by Employment Size: 2002.....	4
5. Industry Statistics by Primary Product Class Specialization: 2002	5
6a. Products Statistics: 2002 and 1997	6
6b. Product Class Shipments for Selected States: 2002 and 1997 .	7
7. Materials Consumed by Kind: 2002 and 1997.....	8

Appendixes

A. Explanation of Terms	A-1
B. NAICS Codes, Titles, and Descriptions	B-1
C. Methodology	C-1
D. Geographic Notes	--
E. Metropolitan and Micropolitan Statistical Areas	--
F. Comparability of Product Classes and Product Codes: 2002 to 1997	F-1

-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com- panies ²	All estab- lish- ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
331112, Electrometallurgical ferroalloy product manufacturing	2002..	24	2 454	122 032	1 797	3 898	81 571	288 330	564 782	883 414	19 727
	2001..	N	2 747	126 032	1 946	4 111	78 985	319 005	352 977	676 880	29 801
	2000..	N	3 108	138 242	2 115	4 866	82 745	357 317	527 169	901 303	33 291
	1999..	N	2 947	133 604	2 029	4 483	83 790	388 399	551 807	940 939	35 442
	1998..	N	3 669	159 302	2 573	5 975	102 146	562 944	874 863	1 432 827	49 576
	1997..	19	3 660	154 430	2 625	5 923	102 279	563 460	849 839	1 388 691	69 065

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
331112, Electrometallurgical ferroalloy product manufacturing												
United States.....	—	24	17	2 454	122 032	1 797	3 898	81 571	288 330	564 782	883 414	19 727
Ohio	—	6	6	1 645	82 672	1 173	2 552	54 439	194 836	404 099	618 870	14 336

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
331112, Electrometallurgical ferroalloy product manufacturing	
Companies ¹	number.. 21
All establishments ²	number.. 24
Establishments with 1 to 19 employees	number.. 7
Establishments with 20 to 99 employees	number.. 10
Establishments with 100 employees or more	number.. 7
All employees ³	number.. 2 454
Total compensation	\$1,000.. 169 270
Annual payroll	\$1,000.. 122 032
Total fringe benefits	\$1,000.. 47 238
Production workers, average for year	number.. 1 797
Production workers on March 12	number.. 1 778
Production workers on May 12	number.. 1 805
Production workers on August 12	number.. 1 788
Production workers on November 12	number.. 1 815
Production worker hours	1,000.. 3 898
Production worker wages	\$1,000.. 81 571
Total cost of materials	\$1,000.. 564 782
Materials, parts, containers, packaging, etc., used	\$1,000.. 423 479
Resales	\$1,000.. 23 958
Purchased fuels	\$1,000.. 29 569
Purchased electricity	\$1,000.. 79 685
Contract work	\$1,000.. 8 091
Quantity of electricity purchased for heat and power	1,000 kWh.. 2 668 440
Quantity of electricity generated less sold for heat and power	1,000 kWh.. S
Total value of shipments	\$1,000.. 883 414
Primary products value of shipments	\$1,000.. D
Secondary products value of shipments	\$1,000.. D
Total miscellaneous receipts	\$1,000.. 41 039
Value of resales	\$1,000.. D
Contract receipts	\$1,000.. D
Other miscellaneous receipts	\$1,000.. D
Primary products specialization ratio	percent.. D
Value of primary products shipments made in all industries	\$1,000.. D
Value of primary products shipments made in this industry	\$1,000.. D
Value of primary products shipments made in other industries	\$1,000.. D
Coverage ratio	percent.. 96
Value added	\$1,000.. 288 330
Total inventories, beginning of year	\$1,000.. 197 731
Finished goods inventories	\$1,000.. 77 286
Work-in-process inventories	\$1,000.. 55 948
Materials and supplies inventories	\$1,000.. 64 497
Total inventories, end of year	\$1,000.. 152 088
Finished goods inventories	\$1,000.. 58 586
Work-in-process inventories	\$1,000.. 44 346
Materials and supplies inventories	\$1,000.. 49 156
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. 587 314
Total capital expenditures (new and used)	\$1,000.. '19 727
Buildings and other structures (new and used)	\$1,000.. '1 735
Machinery and equipment (new and used)	\$1,000.. '17 992
Automobiles, trucks, etc., for highway use	\$1,000.. '338
Computers and peripheral data processing equipment	\$1,000.. '559
All other expenditures for machinery and equipment	\$1,000.. '17 095
Total retirements	\$1,000.. '5 923
Gross value of depreciable assets at end of year	\$1,000.. '601 118
Depreciation charges during year	\$1,000.. '32 913
Total rental payments	\$1,000.. 7 279
Buildings and other structures	\$1,000.. 1 799
Machinery and equipment	\$1,000.. 5 480
Total other expenses ⁴	\$1,000.. 64 780
Response coverage ratio ⁵	percent.. 67
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 18 139
Communications services ⁴	\$1,000.. 1 218
Legal services ⁴	\$1,000.. 2 891
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 704
Advertising and promotional services ⁴	\$1,000.. 303
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 588
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 7 642
Management consulting and administrative services ⁴	\$1,000.. 6 410
Taxes and license fees ⁴	\$1,000.. 4 222
All other expenses ⁴	\$1,000.. 22 663

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on 2002 Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
331112, Electrometallurgical ferroalloy product manufacturing											
All establishments	—	24	2 454	122 032	1 797	3 898	81 571	288 330	564 782	883 414	'19 727
Establishments with—											
1 to 4 employees	9	1	a	D	D	D	D	D	D	D	—
5 to 9 employees	—	2	a	D	D	D	D	D	D	D	D
10 to 19 employees	1	4	b	D	D	D	D	D	D	D	'91
20 to 49 employees	4	5	160	7 397	114	227	4 459	16 794	28 059	45 352	D
50 to 99 employees	—	5	357	15 379	267	583	9 625	39 046	60 334	93 436	8 402
100 to 249 employees	—	5	646	32 515	493	1 024	22 041	79 971	135 810	231 079	D
250 to 499 employees	—	1	e	D	D	D	D	D	D	D	D
500 to 999 employees	—	1	f	D	D	D	D	D	D	D	D
1,000 to 2,499 employees	—	—	—	—	—	—	—	—	—	—	—
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	—	—	—	—	—	—	—	—	—	—	—

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
331112	Electrometallurgical ferroalloy product manufacturing	24	2 454	122 032	1 797	3 898	81 571	288 330	564 782	883 414	'19 727
3311123	Ferrosilicon, including briquettes, and other silicon alloys	6	385	23 258	302	696	17 120	34 747	107 251	158 527	'3 386
3311125	Other ferroalloys	18	2 069	98 774	1 495	3 202	64 451	253 583	457 531	724 887	'16 341

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. **Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
331112	Electrometallurgical ferroalloy product manufacturing	2002.. N 1997.. N	X X	X X	814 749 1 130 049
3311121	Ferrochromium, including briquettes, ferrochromium silicon, exothermic chromium additives, and other chromium alloys	2002.. N 1997.. N	X X	X X	— D
33111211	Ferrochromium, including briquettes, ferrochromium silicon, exothermic chromium additives, and other chromium alloys	2002.. N 1997.. N	X X	X X	— D
3311121100	Ferrochromium, including briquettes, ferrochromium silicon, exothermic chromium additives, and other chromium alloys	1,000 s tons.. 2002.. — 1997.. 2	— D	— D	— D
3311123	Ferrosilicon, including briquettes, and other silicon alloys	2002.. N 1997.. N	X X	X X	163 491 357 627
33111231	Ferrosilicon, including briquettes, and other silicon alloys	2002.. N 1997.. N	X X	X X	163 491 357 627
3311123100	Ferrosilicon, including briquettes, and other silicon alloys	1,000 s tons.. 2002.. 6 1997.. 5	S X	S 395.4	163 491 357 627
3311125	Other ferroalloys	2002.. N 1997.. N	X X	X X	651 258 D
33111251	Ferrous superalloys	2002.. N 1997.. N	X X	X X	356 488 301 648
3311125101	Ferrous superalloys	1,000 s tons.. 2002.. 5 1997.. 4	X X	38.9 32.6	356 488 301 648
33111252	Other ferroalloys, including silvery iron, ferromanganese, manganese metal, silicomanganese and ferrospegeleisen	2002.. N 1997.. N	X X	X X	225 180 D
3311125203	Other ferroalloys, including silvery iron, ferromanganese, manganese metal, silicomanganese and ferrospegeleisen	1,000 s tons.. 2002.. 8 1997.. 5	X D	P321.9 D	225 180 D
33111253	Other ferrous products made in electric and other furnaces	2002.. N 1997.. N	X X	X X	69 470 163 217
3311125305	Other ferrous products made in electric and other furnaces	2002.. 12 1997.. 8	X X	X X	69 470 163 217
3311125Y	Other ferroalloys, nsk	2002.. N 1997.. N	X X	X X	120 17 875
3311125YWV	Other ferroalloys, nsk	2002.. N 1997.. N	X X	X X	120 17 875
331112W	Electrometallurgical ferroalloy product manufacturing, nsk, total	2002.. N 1997.. N	X X	X X	— —
331112WY	Electrometallurgical ferroalloy product manufacturing, nsk, total	2002.. N 1997.. N	X X	X X	— —
331112WYWW	Electrometallurgical ferroalloy product manufacturing, nsk, for nonadministrative-record establishments	2002.. N 1997.. N	X X	X X	— —
331112WYWY	Electrometallurgical ferroalloy product manufacturing, nsk, for administrative-record establishments	2002.. N 1997.. N	X X	X X	— —

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p—10 to 19 percent estimated; q—20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3311121	Ferrochromium, including briquettes, ferrochromium silicon, exothermic chromium additives, and other chromium alloys	
	United States..... 2002..	—
	1997..	D
3311123	Ferrosilicon, including briquettes, and other silicon alloys	
	United States..... 2002..	163 491
	1997..	357 627
3311125	Other ferroalloys	
	United States..... 2002..	651 258
	1997..	D
	Ohio 2002..	494 114
	1997..	337 853

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
331112	Electrometallurgical ferroalloy product manufacturing		
00900001	Total materials .....2002..	X	423 479
	.....1997..	X	562 971
32741009	Dead-burned dolomite fluxes .....2002..	X	D
	.....1997..	X	D
32799209	Fluorspar fluxes .....2002..	X	D
	.....1997..	X	D
32700013	All other stone, clay, glass, and concrete products .....2002..	X	D
	.....1997..	X	6 196
32500011	Industrial chemicals (excluding sulfuric acid and oxygen) .....2002..	X	4 896
	.....1997..	X	4 563
32512003	Oxygen (including high and low purity) .....2002..	X	D
	.....1997..	X	1 134
32500039	All other chemicals and allied products .....2002..	X	D
	.....1997..	X	1 593
21229901	Mining manganese ore (including 10 percent manganese) and ferroalloy ore .....2002..	X	D
	.....1997..	X	D
21220013	All other metal mining .....2002..	X	D
	.....1997..	X	—
21211001	Coal used in the production of coke .....1,000 s tons..2002..	D	D
	.....1997..	D	D
00190023	Iron and steel scrap, excluding home scrap .....1,000 s tons..2002..	P206.5	13 985
	.....1997..	S	46 057
00190053	Direct-reduced iron (DRI) .....1,000 s tons..2002..	D	D
	.....1997..	N	N
33120045	Pig iron shapes and forms (excluding silvery iron, castings, forgings, and fabricated metal products) .....1,000 s tons..2002..	D	D
	.....1997..	D	D
32410017	Lubricating oils and greases and other petroleum products .....2002..	X	962
	.....1997..	X	890
33350003	Industrial dies, molds, jigs, and fixtures .....2002..	X	D
	.....1997..	X	249
33599103	Carbon and graphite electrodes .....2002..	X	12 149
	.....1997..	X	32 231
33111205	Ferrochromium shapes and forms (excluding castings, forgings, and fabricated metal products) .....1,000 s tons..2002..	D	D
	.....1997..	D	D
33111207	Ferrosilicon (more than 8 percent silicon) shapes and forms (excluding castings, forgings, and fabricated metal products) .....1,000 s tons..2002..	D	D
	.....1997..	7.3	4 050
331000AE	All other ferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....1,000 s tons..2002..	D	D
	.....1997..	—	—
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	N
33141933	Nickel (excluding ferronickel) shapes and forms (excluding castings, forgings, and fabricated metal products) .....1,000 s tons..2002..	D	D
	.....1997..	1.7	11 442
33141939	Tin shapes and forms (excluding castings, forgings, and fabricated metal products) .....1,000 s tons..2002..	D	D
	.....1997..	N	N
33141905	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	70 179
	.....1997..	X	N
33151103	Gray iron ingot molds and stools .....2002..	X	D
	.....1997..	X	84
33151007	All other iron and steel castings .....2002..	X	D
	.....1997..	X	1 557
32712400	Clay refractories .....2002..	X	D
	.....1997..	X	1 316
32712500	Nonclay refractories .....2002..	X	6 657
	.....1997..	X	11 517
32741007	Lime fluxes, including quicklime .....2002..	X	D
	.....1997..	X	D
32799207	Limestone fluxes .....2002..	X	D
	.....1997..	X	D
33120067	Steel wire, for redrawing .....1,000 s tons..2002..	D	D
	.....1997..	N	N
33111201	Other ferroalloy shapes and forms (including silvery iron, ferrotungsten, ferromolybdenum, ferronickel, etc.) .....1,000 s tons..2002..	D	D
	.....1997..	D	D
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	213 581
	.....1997..	X	355 607
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	2 926
	.....1997..	X	8 586

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.